

Message Text

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ACTION EB-07

INFO OCT-01 CIAE-00 COME-00 DODE-00 NRC-05 NSAE-00 USIA-06

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FM USMISSION OECD PARIS

TO SECSTATE WASH DC 2757

C O N F I D E N T I A L SECTION 01 OF 02 OECD PARIS 19694

EXCON

E.O. 11652: XGDS1

TAGS: ESTC, COCOM

SUBJ: MEETINGS WITH FRENCH ON GSP/KONGSBERG NC

TRANSACTION

REF: OECD PARIS 18435

1. ON JUNE 23, USDEL WITH MISKELL AND KRATZ MET WITH FRENCH DEL DUMONT AND HIS EXPERT GAMET TO DISCUSS FRENCH GSP/FOREST SALE OF MACHINE TOOLS EQUIPPED WITH NORWEGIAN KONGSBERG CNC UNITS TO USSR. IT WILL BE RECALLED THAT GSP/KONGSBERG MATTER AROSE DURING INFORMAL TECHNICAL GROUP DISCUSSIONS ON KONGSBERG CNC ISSUE (SEE REFTEL). AT THAT TIME, NORWEGIANS, INCLUDING KONGSBERG REPRESENTATIVE, INDICATED THAT GSP MACHINES TOOLS WOULD BE EQUIPPED WITH KONGSBERG MODEL 300 5-AXIS CNC CONTROL SYSTEMS ESPECIALLY DESIGNED FOR USE ON METAL REMOVAL MACHINE TOOLS. IN THE BILATERAL MEETING WITH THE FRENCH, WE EXPRESSED OUR VIEW THAT THE KONGSBERG 300 IS EMBARGOED BY IL 1091(A) AND THAT ITS EXPORT REQUIRED PRIOR APPROVAL BY THE COMMITTEE. THE FRENCH TOOK THE POSITION THAT IT WAS GOVERNED RATHER BY IL 1565 AND ADMINISTRATIVE NOTE THERETO. USDEL REITERATED OUR VIEWS IN LETTER OF JUNE 24 TO DUMONT, COPIES POUCHED KRATZ AND PRACHT. IT WAS AGREED THAT THE TWO SIDES WOULD MEET AGAIN ON JULY 2 TO PURSUE THE

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QUESTION.

2. SECOND MEETING TOOK PLACE JULY 2 AS SCHEDULED. BESIDES DUMONT AND GAMET, THERE WERE JEAN ALLEX-LYOUDE, WHO WILL REPLACE DUMONT SHORTLY AS FRENCH DEL, AND M. HAUVERTE, MACHINE TOOL EXPERT FROM MINISTRY OF INDUSTRY AND RESEARCH. MEETING BEGAN WITH US REITERATING POSITION SET FORTH IN TOWNSEND TO DUMONT LETTER. FRENCH SIDE (GAMET) DID NOT ARGUE WITH US POSITION BUT ASKED RATHER ELEMENTARY TECHNICAL QUESTIONS ON HOW ONE DIFFERENTIATED BETWEEN GENERAL PURPOSE COMPUTERS AND CNC UNITS. GAMET STATED SUCH AN EXPLANATION WAS NECESSARY FROM US IN ORDER FOR HIM TO EXPLAIN DIFFERENCE TO HIS AUTHORITIES. MISKELL EXPLAINED THAT CNC UNITS WERE SYSTEMS DEDICATED TO CONTROLLING MACHINE TOOLS WITH SPECIALIZED SOFTWARE AND DIRECT, ELECTRICAL HOOKUP (INTERFACE) TO MACHINE TOOLS. GENERAL PURPOSE COMPUTERS, ON OTHER HAND, WHILE THEY COULD BE USED FOR GENERATING TAPE FOR NC MACHINE TOOL APPLICATIONS, DID NOT POSSESS SPECIALIZED CHARACTERISTICS OF NC UNITS, I.E., DEDICATED SYSTEMS WITH UNIQUE SOFTWARE AND INTERFACE. FRENCH SEEMED SATISFIED WITH EXPLANATION, BUT MADE NO COMMITMENT WHETHER THEY INTENDED TO SUBMIT CASE TO THE COMMITTEE.

3. GAMET ALSO ASKED HOW WE DIFFERENTIATED TECHNICALLY BETWEEN CNC UNITS SPECIALLY DESIGNED FOR FLAMECUTTING FROM THOSE SPECIALLY MADE FOR USE ON METAL REMOVAL EQUIPMENT AS SET FORTH IN DISCUSSION ON KONGSBERG

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EQUIPMENT IN DRAFT TECHNICAL WORKING GROUP REPORT. MISKELL REITERATED POINTS MADE IN REPORT, I.E., FLAME-CUTTING CONTROLS USED DRIVE SYSTEMS (MAGNETICALLY COUPLED), DID NOT HAVE A PROGRAMMED FEEDRATE NUMBER (ACCURATE VELOCITY CONTROL), OPERATED OPEN LOOP WITH RESPECT TO MACHINE POSITION, AND USED RATHER COARSE INTERPOLATION ALGORITHMS. MACHINE TOOL CONTROLS USED DC DRIVES, INDUCTOSYN AND REGULAR FEEDBACK, AN ACCURATE INTERPOLATION SCHEME, PROGRAMMED FEEDRATE NUMBER, CLOSED THE POSITION LOOP ON THE CONTROL UNIT AND USED A VELOCITY LOOP.

4. U.S. THEN POINTED OUT TO FRENCH THAT THE GSP MACHINE COULD BE OPTIONALLY EQUIPPED WITH A .001 DEG RESOLUTION ROTARY TABLE. THE KONGSBERG CNC 300 SYSTEM CAN INTERPOLATE 5-AXIS SIMULTANEOUSLY AND THEREFORE COULD SYNCHRONIZE THE ROTARY TABLE WITH THE OTHER 3 LINEAR AXES. IF THE MACHINE TOOLS HAD A .001 DEG RESOLUTION ROTARY TABLE WITH INDUCTOSYN FEEDBACK, IT WOULD BE HIGHLY LIKELY THAT THE MACHINE TOOL/CONTROL SYSTEM WOULD BE OPERATED IN A FULL 4-AXIS CONTINUOUS PATH MODE, AND NOT USED SOLELY FOR WORK PIECE ORIENTATION. THE FRENCH POINTED OUT THAT THE GSP5B WAS A 5-AXIS MACHINE TOOL WITH TWO POSITIONING AXES, AND THAT IT CAME WITHIN THE AMBIT OF TECHNICAL NOTE 2 TO IL 1091(A). THEY WERE UNABLE TO GIVE THE
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POSITIONING ACCURACY OF THE FOURTH AXIS. MISKELL POINTED OUT THAT IF THE RESOLUTION WAS .001 DEG, THERE WOULD BE A STRONG INDICATION THAT THE MACHINE TOOLS WERE TO BE OPERATED IN A FULL 4-AXIS CONTOURING MODE.

5. DISCUSSION OF LATTER POINT ENDED INCONCLUSIVELY, BUT WE BELIEVE US MADE ITS POINT WITH FRENCH THAT THERE WAS AN INDICATION THAT GSP MACHINE TOOLS, AS WELL AS KONGSBERG CONTROL SYSTEMS, WERE CAUGHT BY IL 1091 AND REQUIRED COMMITTEE APPROVAL BEFORE EXPORT COULD BE MADE TO USSR.
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